Item ID:   D212-725-1-007	<b>Work Order ID</b> May-17-12 10:42:33 A	4.0				*84	4622*	•		٠ ۽ ٠			•	Page
Start Date: 17/05/2012 Start Qty: 2.00 *2* Cust Item ID: Required Date: 31/05/2012 Req'd Qty: 2.00 *2* Customer:  Approvals: Process Plan: MC Date: 12/05   Tooling: Date: Stop *NR2  GC: Date: SPC (Y/N): Date: Stop *NR2  Sequence ID/ Work Center ID Description Set Up/ Tool ID Tool # Plan Accept Reject Insp. Draw Nbr Revision Nbr  D4215 A  100  **100**  **HAAS CNC VERTICAL MACHINING #1  HAAS CNC Vertical machine #1  Memo 0.00  ***Critical Part, MRB decisions on this part may only be performed by DART DEB02.Any changes to the design, manufacturing process, approved operating environment, and design loading spectrum will require a review of the fatigue civaluation for this part: ************************************	Item ID: D212-Revision ID:	725-1-007	LANK	4.		Accept	*N9	วกก	<b>040</b>	100	<b>)*</b> s		ÍΛ	S1*
QC: Date: SPC (Y/N): Date: Stop *NR2  Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp.  Draw Nbr Revision Nbr  Date: SPC (Y/N): Date: **NR2  Sequence ID/ Operation Run Hours Tool ID Tool # Plan Accept Reject Reject Insp.  Tool ID Tool # Plan Accept Reject Reject Insp.  Run Hours Accept Reject Reject Insp.  Run Hours Tool ID Tool # Plan Accept Reject Reject Reject Insp.  Run Hours Accept Reject Reject Insp.  Run Hours Accept Reject Reject Insp.  Run Hours Accept Reject Reject Reject Run Hours Stam  Draw Nbr Revision Nbr  Date: **NR2**  Number Stam  Memo 0.00  ***Critical Part, MRB decisions on this part may only be performed by DART DE#02. Any changes to the design, manufacturing process, approved operating environment, and design loading spectrum will require a review of the fatigue evaluation for this part ****  Machine as per Folio FA656 and Dwg D212-725-1  Dwg Rev: A Folio Rev. R  Inspect dimensions to dimension sheet 0.00  ***Critical Part, MRB decisions on this part may only be performed by DART DE#02. Any changes to the design, manufacturing process, approved operating environment, and design loading spectrum will require a review of the fatigue  valuation for this part ************************************	Required Date: 31/05/	_	·		*2* *2*	e v			D:			* *		ijΖ.
Work Center ID  Description  Run Hours  Code  Qty  Qty  Number  Stam  Draw Nbr  Revision Nbr  D4215  A  100  **100*  HAAS CNC VERTICAL MACHINING #1  HAAS I.  Memo  0.00  ***Critical Part,MRB decisions on this part may only be performed by DART  DE#02.Any changes to the design,manufacturing process, approved operating environment, and design loading spectrum will require a review of the fatigue evaluation for this part***  Machine as per Folio FA656 and Dwg D212-725-1  Dwg Rev: A  Folio Rev: R	•	ess Plan:M(	5		105/1	•				113	R		<b>V</b> i	R1 R2
D4215  A  100  *100  *100  HAAS CNC VERTICAL MACHINING #1  HAAS I.  Memo  0.00  FK. 12/05/23  Memo  0.00  HAAS CNC vertical machine #1  ******Critical Part, MRB decisions on this part may only be performed by DART DE#02. Any changes to the design, manufacturing process, approved operating environment, and design loading spectrum will require a review of the fatigue evaluation for this part************************************	Work Center ID				7			ool ID	Tool #					Insp. Stam
HAAS CNC VERTICAL MACHINING #1  HAAS CNC VERTICAL MACHINING #1  HAAS CNC vertical machine #1  Memo  0.00  ****Critical Part, MRB decisions on this part may only be performed by DART DE#02. Any changes to the design, manufacturing process, approved operating environment, and design loading spectrum will require a review of the fatigue evaluation for this part  Machine as per Folio FA656 and Dwg D212-725-1  Dwg Rev: A Folio Rev: B  -Inspect dimensions to dimension sheet  0.00  FK 12/05/23	Dansen Miles													
Folio Rev. R  - Inspect dimensions to dimension sheet  0.00  F.K. 12/05/23	D4215 100 *100*	A	A Property of the second	MACHININC	G#1		FK	12/05	7/23		2.		**	
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Part No	•	PAR #:	_ Fault Cate	egory:	NCF	R: Yes	No <b>DQ</b>	A:	Date:	·.
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NCR:		W	ORK ORE	ER NON-CONFORMA	NCE	(NCR	l)	:	-	
DATE	STEP	Description of NC	in it at	Corrective Action Section	on B	Sign &		cation	Approval	Approval
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Item ID: Revision ID: Item Name:	D212-725-1	-007 E BELL CRANK		Accept	*N9000	740	100	)*	Setup St	1	IS1*
Start Date: Required Date: Reference:	17/05/2012	Start Qty: 2.00 Req'd Qty: 2.00	*2* *2*		Cust Item II Customer:	<b>)</b> :				· "K	IS2*
Approvals:	Process Pla	an:	Date:	Tooling:	Dat	te:	_	]		art *N	IR1*
·	QC:		Date:	_ SPC (Y/N):	Dat	te:			St	<sup>ор</sup> *N	IR2*
Sequence ID/ Work Center I  120 *120* Mill Conv Conventional Millin		Operation Description  CONVENTIONAL MILI  Memo  MILL SLOT	S AS PER DWG D212-72	Set Up/ Run Hours 0.00 0.00	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		ion C	Chief Eng	QC Inspector
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<b>Work Ord</b> <i>May-17-12 10:-</i>		622		*846	322*							Page 3
Item ID: Revision ID: Item Name:	D212-725-1-	007 E BELL CRANK		Accept	*N900	040	100	<b>)*</b> s	etup St			S1*
Start Date: 17/05/2012 Start Qty: 2.00 Required Date: 31/05/2012 Req'd Qty: 2.00 Reference:		*2* *2*	; ;	Cust Item   Customer:	ID:			,	γФ	^N:	S2*	
Approvals:	Process Pla	n:	Date:	Tooling: SPC (Y/N):		ate:		R		op		R1* R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty		eject umber	Insp. Stamp
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*150		Chemical Conversion Co	at per QS1005 4.1	0.00				· (	/	q	H ()	1 - (
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*160 *160*	<b>ж</b> т	QC3- Inspect Part Finish		0.00				2	Ø	Ü	BL,	126-6.
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Work Orde May-17-12 10:4		622		*846	322*							Page 4
Revision ID:	D212-725-1-	007 E BELL CRANK		Accept	*N900	<b>040</b>	100	)* s	etup	Start Stop	171	S1* S2*
Start Date: Required Date: Reference:	17/05/2012 31/05/2012	Start Qty: 2.00 Req'd Qty: 2.00	*2* *2*		Cust Item I Customer:	D:					10.	. 17
Approvals:		n:	Date:	Tooling: SPC (Y/N):		ate:		R	Run	Start Stop	"	R1* R2*
Sequence ID/ Work Center II  170  *170* Packaging Packaging	)	Operation Description Identify as per dwg & Sto	ock Location: ST3 f	Set Up/ Run Hours / 0.00 0.00	Tool ID	Tool#	Plan Code	Accept Qty	Rejo Qty		Reject Number S ų	Insp. Stamp
*180 *180*		QC21- Final Inspection -	Work Order Release	0.00						121	16/8	· H

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Dart Aerospace Ltd
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DATE	STEP	Description of NC		Corrective Action Section		Verification	Approval	Approval	
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### **Picklist Print**

May-17-12 10:42:37 AM

Work Order ID: 84622

\*84622\*

D212-725-1-007

Parent Item Name: COLLECTIVE BELL CRANK

\*D212-725-1-007\*

Start Date: 17/05/2012

**Required Date: 31/05/2012** 

Page 1

Start Qty: 2.00

Required Qty: 2.00

Comments:

Parent Item:

IPP Rev:A New Issue 07-014-10 JLM

per ECN10-532 DD 10.04.08 verified by:JLM

Ipp Rev:C Added

79875

"Critical Part" Note 10-06-02 Verified By:DD \*\*\*\*Critical Part,MRB decisions on this part may only be performed by DART DE#02. Any changes to the design, manufacturing process, approved operating environment, and design loading spectrum will require a review of the fatigue evaluation for this

part\*\*\*\*\*\*\*\*\*\*\*\*\*

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6101-007		Manufactured	No				Each	19.0000		2			
*D6101-00	7*								**	21	12-05	-17	

IPP Rev:B as

<u>Location</u>	Loc Oty	Loc Code	
MAT041	18		_
83450	18		_
MAT042	1		

# Dart Aerospace Ltd

W/O:			V	ORK ORDER CH	IANGES				
DATE	STEP	PRO	CEDURE CH	IANGE		Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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in the same							,		
Part No	:	PAR #:	Fault Cat	tegory:	NC	R: Yes N	o <b>DQA</b> :	_ Date: _	
	R	esolution:	Dispositi	ion:	QA	NC Clo	sed:	Date: _	
NCR:		V	VORK ORI	DER NON-CONF	ORMANCE	(NCR)			
DATE	OTED	Description of NC		Corrective Action	Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descri		Sign & Date	Section C	Chief Eng	QC Inspector
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DART AEROSPACE LTD	Work Order:	9,4622
Description: Collective Bell Crank	Part Number:	D212-725-1-007
Inspection Dwg: D212-725-1 Rev: G		Page 1 of 1

## FIRST ARTICLE INSPECTION DIMENSION SHEET

MRB decisions on this part may only be performed by Dart DE #02. Any changes to the design, manufacturing process, approved operating environment and design loading spectrum will require a review of the fatigue evaluation for this part.

•					Record	Actual Dim	ensions	
Dim	Min	Max		1	2	3	4	5
				HAAS Section	on		·	· · · · · · · · · · · · · · · · · · ·
Α	0.806	0.826		-914	.815		T	
В	0.215	0.235		,224	. 225			
С	0.370	0.390		337	13.73			
D	0.220	0.280		.250	,250			
E	99.5	100.5		100°	10000			
F	0.086	0.106		.096	-096			
G	6.452	6.472		6.462	6.464			
Н	0.022	0.042	1 <sup>ST</sup> Side	. 032	.032			
Н	0.022	0.042	2 <sup>nd</sup> Side	* 035	.032			
i	0.998	1.000		. 9982	9991			
J	1.390	1.410		1,480	1,400			
K	2.944	2.654		2,949	7,949			
<u>L</u>	2.258	2.278		2.268	7.268			
M	0.249	0.255		.250	,251			
N	0.973	0.993		.983	. 983			
0	0.904	0.906		.9042	.9048			
Р	0.249	0.255		250	,251			
Q	0.015	0.035	1 <sup>ST</sup> Side	-032	.032			
Q	0.015	0.035	2 <sup>nd</sup> Side	٠٥٦٦.	,032			
R	0.834	0.844		. 837	. 838			
S	1.040	1.060		1.051	1.046			
T	0.220	0.280		₩.250	,280			
	Measure	d by: FK-				Date:	12/05/	122
			Man	ual Milling Se	oction			
AA	0.218	0.238		, 225	,234			
AB	0.594	0.599	· · · · · · · · · · · · · · · · · · ·	1595	200	<del></del>		
AC	0.430	0.435		1931	597		<u> </u>	
AD	0.197	0.217		1204	(20)	<del></del>		<del> </del>
AE	0.798	0.818		808	-808			
AF	0.730	0.750		.740	740	-		
AG	0.100	0.160		,125	125			
AH		31,50		i /20 U	Mas			<del></del>
			Accept/Reject					
	Measure	ed by: 17.K	(A)	ė.		Date:	12/05/	123 12-5-2
	Audite	ed by:	L			Date:	12/05	
relimi	inary Appı	oval:				Date:		
Rev	Date	Change				Rev	vised by	Approved
	07.01.17	New Issue		<del></del>			JLM	
В	08.12.02	Dimensions up	odated per Dw	a Rev. D		KJ/		
C	10.02.02	Dimensions up				KJ		10/1
	10.02.02							

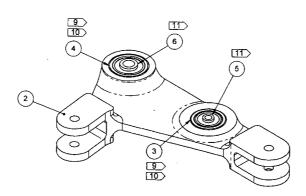
## **Dart Aerospace Ltd**

W/O:		WORK ORDER CH	ANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		•	WORK ORDER NON-CONFORMANCE (NCR)									
	STEP	Description of NC		Corrective Action Section B	Verification	Approval	Approval					
DATE		Section A	Initial Chief Eng	Action Description  Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector				
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ITEM	QTY -901	PART NUMBER	DESCRIPTION
1	Х	D212-725-1-901	COLLECTIVE BELLCRANK ASS'Y
2	1	D212-725-1-007	COLLECTIVE BELLCRANK
3	1	120-013-3A	SLEEVE
4 1	1	120-015-5A	SLEEVE
5	1	MS27643-3	BEARING
6	1	MS27647-5	BEARING



### **D212-725-1-901 COLLECTIVE BELLCRANK ASSY**

CRITICAL PART
MRB DECISIONS ON THIS PART MAY ONLY BE PERFORMED BY
DART DEM2. ANY CHANGES TO THE DESIGN, MANUFACTURING
PROCESS, APPROVED OPERATING ENVIRONMENT, AND DESIGN
LOADING SPECTRUM WILL REQUIRE A REVIEW OF THE FATIGUE
EVALUATION FOR THIS PART.

A NEW ISSUE 11.02.24 DESCRIPTION BY DATE DC DART AEROSPACE LTD RF HAWKESBURY, ONTARIO, CANADA DRAWING NO. REV. A D4215 SHEET 1 OF 2 TITLE COLLECTIVE BELLCRANK 11.02.24

REV. DESIGN DRAWN CHECKED MFG. APPR. APPROVED DE APPR. DATE

NOTES:
1) MATERIAL: N/A
2) FINISH: PRIME YELLOW PER DART QSI 005 4.2
2) FINISH: PRIME YELLOW PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
7) WEIGHT: 0.68 lbs
8) SWAGE/STAKE PER QSI 002
9) SLEEVE ID AND OD MAY BE ADJUSTED TO PROVIDE PROPER FIT
10) SLEEVE SHOULD FIT INTO BELLCRANK USING FINGER PRESSURE ONLY
11) BEARING SHOULD FIT INTO SLEEVE USING FINGER PRESSURE ONLY

SHOP COPY RETURN TO **ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT

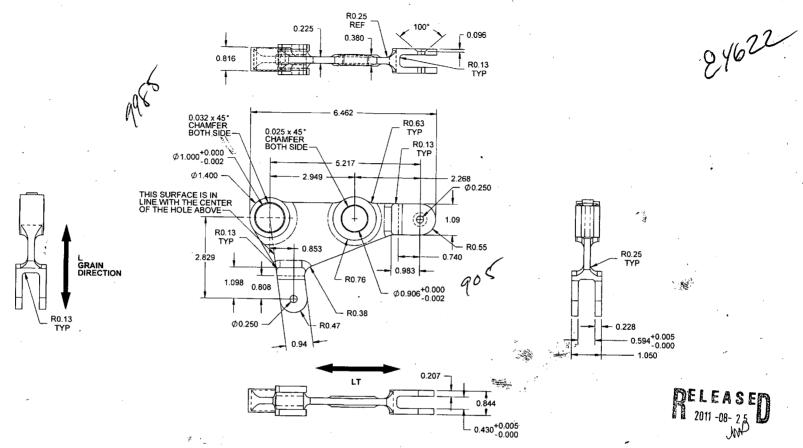
WITHOUT NOTICE

WORK ORDER 8-16-27 MLJ

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Part No		PAR #: Resolution:	Fault Category:	•				

NCR:			WC	DRK OR	DER NON-CONFORMANCE	(NCR)	•.		
DATE STEP	Description of NC			Corrective Action Section B		Verification	Approval		
	STEP	Section A		Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector
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NOTES:
1) MATERIAL: 7075-T7351 ALUMINUM
PER QQ-A-250/12
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1.
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1

6) IDENTIFICATION: IDENTIFT FER QST 444 0. 1 7) WEIGHT: 0.39 lbs 8) LPI PER ASTM 1417 LEVEL 2 9) SURFACE FINISH TO BE NO GREATER THAN 80 MICROINCH

### **D212-725-1-007 COLLECTIVE BELLCRANK**

CRITICAL PART
MRB DECISIONS ON THIS PART MAY ONLY BE PERFORMED BY
DART DEM'2. ANY CHANGES TO THE DESIGN, MANUFACTURING
PROCESS, APPROVED OPERATING ENVIRONMENT, AND DESIGN
LOADING SPECTRUM WILL REQUIRE A REVIEW OF THE FATIGUE.

DESIGN DC		DART AEROSPACE LTD					
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA					
CHECKED		DRAWING NO.	REV. A				
MFG. APPR.  APPROVED  DE APPR.		D4215 s	EET 2 OF 2				
		TITLE	SCALE				
		COLLECTIVE BELLCRANK	NTS				
DATE 11.0	2.24	COPYRIGHT © 2011 BY DART AEROSPACE LT THIS COCUMENT IS PRIVATE AND COMPOSITION AND IS SUPPLIED ON THE COPYRESS CO NOT TO BE USED FOR ANY PURPOSE OR COPYRED OR COMMUNICATED TO ANY OTHER P	OFFICE THAT IT IS 14				

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Part No	<u> </u>	DAD # Fault Category	AI/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	No DO	<b>.</b>	Data	

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## LIQUID PENETRANT TEST REPORT

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CLIENT DAT AGROSPACE	DATE 06/05/12 TIME AM PM 2
ATTENTION LINDA LACELLE	ACUREN JOB NO. 188-12- CO256
ADDRESS 1220 ABELLEEN STA	PO/WO No.
Markes By ON	WORK LOCATION , SAUG,
773333	ACCEPTANCE STD ASTU 1417/WS1-038 REVIDATE 2005
PROJECT FPI, ON COA	
ITEM(S) EXAMINED ID-WACHINED	Da 75
6 - cross	7. SES
JOB DESCRIPTION PROCEDURE NO. LTOWN REV./D.	TE 2008 TECHNIQUE NO. LT-CHI2 REV./DATE 2008
	O for the state of
BOOPE A DET FLOWESCENT LIQUIDE	
0.00	
TEST DETAILS	✓ WATER WASH ☐ SOLVENT REMOVABLE ☐ POST EMULS:F 50
THOO DEFLUORESCENT DIVISIBLE  THOUGHT BRAND MANAFLUX	BLACK LIGHT S/N (6454 □ OUTPUT > 1000 µ W/cm² □ AMBIENT < 2 fc
	IN. LIGHTING EQUIP. D FLASHLIGHT D TROUBLELIGHT D OUTPUT>100 fc @ SURFACT
4.770	IN. OTHER LABINS
DEVELOPER 10052 MINIMUM DWELL TIME 10 M DEVELOPER TYPE NON AQUEOUS AQUEOUS DRY	IN. LIGHT METER S/N 10 98666 CAL DUE DATE JULY OF
TEST SURFACE	the state of the s
SURFACE CONDITION   AS GROUND  AS WELDED	Machined Shot Blasted Clean Bare Metal
SURFACE TEMPERATURE	/50°F
RESULTS- METRIC O IMPERIAL)	
8 - W.O. = B1744 2 - W.O. = 84622	
Closs Tubes 83081 83086 21 83066 21 83279	SCECLIND 2 Time
Startall descriptions, comments and expressions of opinion reflect the opinions or observations of Acuren Group Inc. is not assuming any responsibilities of the owner/operator extracts information provided by Acuren Group Inc. In no event shall Acuren Group Inc.'s liability in restandard of Care  1. performing the services provided. Acuren Group Inc. uses the degree, care and skill ordinarily exercised unapplied, is made or intended by Acuren Group Inc.	Under no circumstances shall such services extend beyond the performance of the requested services. It is expressly understood of the based on information and assumptions supplied by the owner/operator and are not intended nor can they be construed as at the owner/operator retains complete responsibility for the engineering, manufacture, repeiyd use decisions as a result of the ect of the services referred to herein exceed the amount paid for such services.  The services referred to herein exceed the amount paid for such services.  The services referred to herein exceed the amount paid for such services.
Signatures	11 pl welch DTR# 563973
CLIENT REPRESENTATIVE Matthews Man 20	SIGNATURE DTR # 5 6 39 2 3
TECHNICIAN (SIGNATURE):	REPORT
NIME (PANT): MILE THAT	REVIEWED BY:  NAME INITIALS
1 <sup>M</sup> TECHNICIAN	2 <sup>nd</sup> TECHNICIAN
· —	B LEVEL SNT LEVEL B REG. NO